

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemical Engineering - Microscale Transport Processes

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Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction
Lecture 2 - Introduction (Continued...)
Lecture 3 - Lab on Chip
Lecture 4 - Lab on Chip (Continued...)
Lecture 5 - Microscale manufacturing practices
Lecture 6 - Photolithography
Lecture 7 - Photolithography (Continued...)
Lecture 8 - Deposition
Lecture 9 - Plastic microfluidic devices
Lecture 10 - Mixing
Lecture 11 - Micro Heat Pipes
Lecture 12 - Mixing (Continued...)
Lecture 13 - Mixing (Continued...)
Lecture 14 - Micro Heat Pipes (Continued...)
Lecture 15 - Mixing (Continued...)
Lecture 16 - Dispersion
Lecture 17 - Dispersion (Continued...)
Lecture 18 - Dispersion (Continued...)
Lecture 19 - Electrowetting
Lecture 20 - Electro osmosis
Lecture 21 - Electrowetting (Continued...)
Lecture 22 - Electro osmosis (Continued...)
Lecture 23 - Dielectrophoresis
Lecture 24 - Dielectrophoresis (Continued...)
Lecture 25 - Dielectrophoresis (Continued...)
Lecture 26 - Scaling dimension and issues
Lecture 27 - Slip flow
Lecture 28 - Microstructured reactor
Lecture 29 - Immiscible flow in microchannel

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- Lecture 30 - Immiscible flow in microchannel (Continued...)
- Lecture 31 - Immiscible flow in microchannel (Continued...)
- Lecture 32 - Scaling dimension and issues (Continued...)
- Lecture 33 - Immiscible flow in microchannel (Continued...)
- Lecture 34 - Plastic device making
- Lecture 35 - Transport processes and their descriptions
- Lecture 36 - Convective fluid dynamics in microchannels
- Lecture 37 - Microfluidic networks
- Lecture 38 - Electrohydrodynamic atomization
- Lecture 39 - Electrohydrodynamic atomization (Continued...)
- Lecture 40 - Interfacial phenomena in thin liquid films